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- 1 HIT and MIS: implications of health information technology and medical information system

 Peter G. Goldschmidt  
October 2005 Communications of the ACM, Volume 48 Issue 10  
Publisher: ACM

Full text available:  pdf(83.48 KB)  html(29.72 KB) Additional Information: full citation, abstract, references, cited by  
index terms

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 371, Citation Count: 2

Evaluating the potential advantages and considering the risks associated with electronic health records.

- 2 Activity-based computing: support for mobility and collaboration in ubiquitous computing

E. Bardram  
September 2005 Personal and Ubiquitous Computing, Volume 9 Issue 5  
Publisher: Springer-Verlag

Full text available:  pdf(412.31 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 138, Citation Count: 4

This paper presents the design philosophy of *activity-based computing* (ABC), which addresses mobility and cooperation in human work activities. Furthermore, it presents the ABC framework which is a ubiquitous computing infrastructure supporting ...

Keywords: Activity-based computing, Computer supported cooperative work, Context-aware computing, Pervasive healthcare, State management, Ubiquitous computing

- 3 A flexible approach for electronic medical records exchange

 Vagelis Hristidis, Peter J. Clarke, Nagarajan Prabakar, Yi Deng, Jeffrey A. White, Redmond P. Burke  
November 2006 HI KM '06: Proceedings of the international workshop on Healthcare information and knowledge management

Publisher: ACM

Full text available:  pdf(3.17 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 556, Citation Count: 0

Many methodologies have been proposed in the last decade for integration and exchange of medical data. However, little progress has occurred due to the following reasons. First, patients are reluctant to give full access to their historical medical data. ...

**Keywords:** HIPAA, electronic medical record, exchange of medical records, patient record information systems

**4 Communication design for electronic negotiations on the basis of XML schema**

Michael Ströbel

April 2001 WWW '01: Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: pdf(214.16 KB) Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 69, Citation Count: 0

**Keywords:** XML, application framework, electronic negotiation, ontology

**5 Health Level-7 compliant clinical patient records system**

Jagbir S. Hooda, Erdogan Dogdu, Raj Sunderraman

March 2004 SAC '04: Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM

Full text available: pdf(177.31 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 268, Citation Count: 0

We present the design and implementation of a Health Level-7 (HL7)-compliant web-based clinical patient records system (CPRS). HL7 is one of the leading standards for exchange of clinical and administrative data among healthcare information systems. ...

**Keywords:** HL7, XML, clinical document architecture, medical informatics, schema, universal patient records, web-based application

**6 Interactive visualization of serial periodic data**

John V. Carlis, Joseph A. Konstan

November 1998 UI ST '98: Proceedings of the 11th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available: pdf(254.26 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 109, Citation Count: 17

**Keywords:** data visualization, information visualization, interactive data exploration, serial periodical data, spiral

**7 Qualitative decision making in adaptive presentation of structured information**

Ronen I. Brafman, Carmel Domshlak, Solomon E. Shimony

October 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 4

Publisher: ACM

Full text available: pdf(6.00 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 126, Citation Count: 0

We present a new approach for adaptive presentation of structured information, based on preference-based constrained optimization techniques rooted in qualitative decision-theory. In this approach, document presentation is viewed as a configuration problem ...

**Keywords:** Adaptive information presentation, preference representation, qualitative decision

## theory

- 8 On the role of roles: from role-based to role-sensitive access control

Xuhui Ao, Naftaly H. Minsky

June 2004 SACMAT '04: Proceedings of the ninth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available: pdf(212.00 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 84, Citation Count: 0

This paper maintains that for an access-control (AC) mechanism to support a wide range of policies it is best to dispense with any built-in semantics for roles in the mechanism itself---be it the semantics of RBAC, or any other---leaving such semantics ...

**Keywords:** access control policy specification and decentralized enforcement, law-governed interaction, role-based access control, security

- 9 Supporting informality: team working and integrated care records

Gillian Hardstone, Mark Hartwood, Rob Procter, Roger Slack, Alex Voss, Gwyneth Rees

November 2004 CSCW '04: Proceedings of the 2004 ACM conference on Computer supported cooperative work

Publisher: ACM

Full text available: pdf(289.85 KB)

Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 177, Citation Count: 1

This paper reports findings from an ethnographic study of the work of Adult and Care of the Elderly Community Mental Health Teams in the context of the deployment of an Electronic Medical Record. Our findings highlight the importance of informal discussions ...

**Keywords:** affordances of paper/computer records, ethnography, informality, integrated care records, teamwork

- 10 Potential prevention of medical errors in casualty surgery by using information technology

R. Blaser, M. Schnabel, D. Mann, P. Jancke, K. A. Kuhn, R. Lenz

March 2004 SAC '04: Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM

Full text available: pdf(149.68 KB)

Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 82, Citation Count: 1

Recent studies on adverse events in medicine have shown that errors in medicine are not rare and may cause severe harm. Quality problems in discharge letters may be a source of medical error. We have analyzed 150 discharge letters of an outpatient clinic ...

**Keywords:** Failure Mode and Effect Analysis, demand driven system evolution, electronic discharge letters, medical error prevention, structured reporting

- 11 From informatics to bioinformatics

Vladimir B. Bajic, Vladimir Brusic, Jinyan Li, See-Kiong Ng, Limsoon Wong

January 2003 APBC '03: Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19, Volume 19

Publisher: Australian Computer Society, Inc.

Full text available: pdf(538.23 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 117, Citation Count: 0

Informatics has helped in launching molecular biology into the genomic era. It appears certain informatics will continue to be a major factor in the success of molecular biology in the post-genome era. In this paper, we describe advances made in ...

**Keywords:** Dragon, FIMM, Kleisli, PCL, PIES, bioinformatics, data integration, data warehousing, epitope prediction, gene expression analysis, protein interaction extraction, transcription start site recognition

**12 A solution to the distribution and standardization of multimedia medical data in E-Health**

Jinman Kim, David Dagan Feng, Tom Weidong Cai, Stefan Eberl

May 2001 VIP '01: Proceedings of the Pan-Sydney area workshop on Visual information processing - Volume 11, Volume 11

Publisher: Australian Computer Society, Inc.

Full text available: pdf(201.75 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 132, Citation Count: 0

Electronic Patient Record (EPR) is an area of research in E-Health that is progressing rapidly due its demand and rapid growth of Information Technology used in the Health Management Organizations (HMO). Benefits of having EPR are the timely access ...

**Keywords:** E-health, distribution, electronic patient record (EPR)

**13 An automated system for conversion of clinical notes into SNOMED clinical terminology**

Jon Patrick, Yefeng Wang, Peter Budd

January 2007 ACSW '07: Proceedings of the fifth Australasian symposium on ACSW frontier Volume 68, Volume 68

Publisher: Australian Computer Society, Inc.

Full text available: pdf(254.69 KB)

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 97, Citation Count: 0

The automatic conversion of free text into a medical ontology can allow computational access to important information currently locked within clinical notes and patient reports. This system introduces a new method for automatically identifying medical ...

**Keywords:** SNOMED-CT, concept indexing, concept mapping, information retrieval, medical terminology

**14 Policy-based security management for federated healthcare databases (or RHIOs)**

Rafae Bhatti, Khalid Moidu, Arif Ghafoor

November 2006 HI KM '06: Proceedings of the international workshop on Healthcare information and knowledge management

Publisher: ACM

Full text available: pdf(329.06 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 363, Citation Count: 0

The role of security management in the RHIOs has recently gained increasing attention due to s privacy and disclosure rules, and federal regulations such as HIPAA. The envisioned use of electronic health care records in such systems involves pervasive ...

**Keywords:** federated healthcare architecture, privacy and disclosure policy, role based access

control

15 Concept-based electronic health records: opportunities and challenges

 Shahram Ebadollahi, Anni R. Coden, Michael A. Tanenblatt, Shih-Fu Chang, Tanveer Syeda-Mahmo Arnon Amir  
October 2006 MULTIMEDIA '06: Proceedings of the 14th annual ACM international conference on Multimedia

Publisher: ACM

Full text available:  pdf(505.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 380, Citation Count: 0

Healthcare is a data-rich but information-poor domain. Terabytes of multimedia medical data are being generated on a monthly basis in a typical healthcare organization in order to document patients' health status and care process. Government and health-related ...

Keywords: concept detection, electronic health records, medical decision support, multimedia analytics

16 Eliciting confidentiality requirements in practice

Seda Gürses, Jens H. Jahnke, Christina Obry, Adeniyi Onabajo, Thomas Santen, Morgan Price  
October 2005 CASCON '05: Proceedings of the 2005 conference of the Centre for Advanced Studies Collaborative research

Publisher: IBM Press

Full text available:  pdf(4.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 149, Citation Count: 1

Confidentiality, the protection of unauthorized disclosure of information, plays an important role in information security of software systems. Security researchers have developed numerous approaches on how to implement confidentiality, typically based ...

17 Access control with IBM Tivoli access manager

 Günter Karjoth  
May 2003 ACM Transactions on Information and System Security (TISSEC), Volume 6 Issue 2

Publisher: ACM

Full text available:  pdf(367.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 203, Citation Count: 8

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated ...

Keywords: Access control, WWW security, Web servers, authorization management

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